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CORRIGENDA

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Pages E210–E214: K. E. Yarasheski, J. J. Zachwieja, and D. M. Bier. "Acute effects of resistance exercise on muscle protein synthesis rate in young and elderly men and women." Page E213, the following note added in proof was inadvertently omitted.

NOTE ADDED IN PROOF

While this article was in press, another group [S. Welle, C. Thornton, R. Jozefowicz, and M. Statt. Myofibrillar protein synthesis in young and old men. *Am. J. Physiol.* 264 (*Endocrinol. Metab.* 27): E693–E698, 1993], using similar techniques to those described here, reported that the fractional rate of myofibrillar protein synthesis was lower (28%) in elderly men (>60 yr) than young men (<35 yr) and that when whole body leucine rate of appearance (i.e., protein breakdown) was normalized for lean body mass, there was no significant difference between the elderly and young adults. Our observations 1) are entirely consistent with the recently published findings; 2) confirm the age-associated decrement in quadriceps muscle protein synthesis rate (38%) and muscle strength (20%) in elderly men and women; 3) are consistent with the suggestion that, with advancing age, muscle protein turnover contributes less and other protein turnover contributes more to the rate of whole body protein turnover; 4) suggest that measures of mixed-muscle protein and myofibrillar protein synthesis rate made using an intravenous [^{13}C]leucine infusion provide comparable results; and 5) suggest that increased contractile activity (e.g., resistance exercise training) may increase the fractional rate of muscle protein synthesis in the elderly to a rate identical to that observed in young adults doing the same relative intensity of short-term resistive exercise.

